

# ANUGYA AGARWAL

Phone:9084047926 | Gmail: [anugyaagr303@gmail.com](mailto:anugyaagr303@gmail.com) | LinkedIn: <https://www.linkedin.com/in/anugya-agarwal-b21b0a253/>

Github: <https://github.com/AnugyaAg> | Leetcode: <https://leetcode.com/u/anugya123/>

## Education

University of petroleum and energy studies (UPES) Btech CSE CCVT   Cgpa:7.8	2022-2026
Dayavati Dharam Vira Public School, Uttar Pradesh 12th Grade	2021-2022

## Technical skills

Programming:	C, C++, Python, Java
Software & Tools:	Backend: Data Structures & Algorithms, Database Management (SQL), Debugging, Operating System Frontend: HTML, CSS, JavaScript, AngularJS Others: AWS, Cloud Computing, Object-Oriented Programming (OOP), Problem Solving, TOC, OpenGL, Software Engineering Principles
Soft skills:	Creativity, Time Management, Problem-Solving, Team Collaboration, Leadership

## Projects

DevConnect – Real-Time Collaborative Coding Platform	Present-2025
<ul style="list-style-type: none"><li>Tech Stack: Node.js, Express.js, React, MySQL, WebRTC, WebSockets, Piston API</li><li>Developed a real-time collaborative coding platform integrating live code editing, video/audio calls, and instant execution for seamless remote teamwork.</li><li>Implemented a synchronized CodeMirror-based editor, digital whiteboard, and built-in chat for enhanced collaboration.</li><li>Optimized performance using WebSockets for real-time synchronization and Piston API for multi-language code execution.</li></ul>	
Classroom Vacancy Management System	Aug 2024-Dec 2024
<ul style="list-style-type: none"><li>Tech Stack: C/C++, Java, HTML, CSS, NodeJs</li><li>Designed and developed a scalable, user-friendly platform for faculty, administrators, and students to manage class schedules and room availability.</li><li>Implemented a dynamic, priority-based room booking system with FCFS scheduling to optimize resource utilization and prevent conflicts.</li><li>Integrated role-based access with separate portals for faculty and students, along with real-time notifications for schedule updates.</li><li>GitHub link: <a href="https://github.com/AnugyaAg/Classroom-Vacancy-Management-System">https://github.com/AnugyaAg/Classroom-Vacancy-Management-System</a></li></ul>	
Deploying Project (Website) on AWS	Jan 2024-May 2024
<ul style="list-style-type: none"><li>Tech Stack: AWS (EC2, S3, CloudFront, WAF, Auto Scaling, Elastic Load Balancer), Nginx/Apache, Docker, MySQL</li><li>Deployed a scalable website using Amazon EC2, S3, and CloudFront for optimized computing, storage, and content delivery.</li><li>Implemented AWS WAF for security, Auto Scaling for dynamic resource management, and Elastic Load Balancer for traffic distribution.</li></ul>	
Agent-Based Simulation of Smart Grid Resilience	Jan 2024-May 2024
<ul style="list-style-type: none"><li>Tech Stack: Agent-Based Modeling, Resilience Analysis, C Programming Language</li><li>Developed agent-based models to simulate and analyze smart grid resilience under stress scenarios.</li><li>Identified vulnerabilities, tested mitigation strategies, and optimized computational efficiency with advanced algorithms to enhance system robustness and assessment accuracy.</li><li>GitHub Link: <a href="https://github.com/AnugyaAg/Species-Extinction">https://github.com/AnugyaAg/Species-Extinction</a></li></ul>	

## Internship

Manthan Trust (Social Internship)	May 2023 – Aug 2023
<ul style="list-style-type: none"><li>Developed leadership, teamwork, and project management skills through decision-making and event execution.</li><li>Strengthened networking abilities by building professional relationships.</li></ul>	

## Achievements & Badges

Coding Ninjas: Earned \*\*Ninja Dominator\*\* badge, Completed advanced challenges

## Certificates

AWS Academy Graduate-AWS Academy Introduction to Cloud Semester 1(60 hours)	Aug-Dec 2023
<ul style="list-style-type: none"><li>Link: <a href="https://drive.google.com/file/d/1ybYeMS7FMmK0m9SKzDbwXluHi9OB56P5/view">https://drive.google.com/file/d/1ybYeMS7FMmK0m9SKzDbwXluHi9OB56P5/view</a></li></ul>	
AWS Academy Graduate-AWS Academy Introduction to Cloud Semester 2(60 hours)	Jan-May 2024
<ul style="list-style-type: none"><li>Link: <a href="https://drive.google.com/file/d/1ybYeMS7FMmK0m9SKzDbwXluHi9OB56P5/view">https://drive.google.com/file/d/1ybYeMS7FMmK0m9SKzDbwXluHi9OB56P5/view</a></li></ul>	
AWS Academy Graduate-AWS Academy Cloud Architecting(60 hours)	Jan-May 2024
<ul style="list-style-type: none"><li>Link: <a href="https://drive.google.com/file/d/1vjXMYg7iDRQC7u4nNYRMZIKnmlfnXkxC/view">https://drive.google.com/file/d/1vjXMYg7iDRQC7u4nNYRMZIKnmlfnXkxC/view</a></li></ul>	
AWS Academy Graduate - AWS Academy Cloud Security Foundations	Aug-Dec 2024
<ul style="list-style-type: none"><li>Link: <a href="https://drive.google.com/file/d/1LluEgUz2WTieZOXImGOhHjqPmQXiTa1Y/view">https://drive.google.com/file/d/1LluEgUz2WTieZOXImGOhHjqPmQXiTa1Y/view</a></li></ul>	

## Relevant Courses

DBMS, Operating System, Computer System Architecture, Data Communication and Networks